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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/542,945	01/17/2006	Richard Wu	CH-7654/MD-02-12-186-ST	2606	
157 7590 08/14/2007 BAYER MATERIAL SCIENCE LLC 100 BAYER ROAD PITTSBURGH, PA 15205			EXAMINER		
			LAVILLA, N	LLA, MICHAEL E	
			ART UNIT	PAPER NUMBER	
			1775	1775	
	•		MAIL DATE	DELIVERY MODE	
		•	08/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary							
		10/542,945	WU ET AL.				
		Examiner	Art Unit				
	The MAN INC DATE of this communication and	Michael La Villa	1775				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on <u>09 July 2007</u> .						
2a)□	This action is FINAL . 2b)⊠ This action is non-final.						
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠ Claim(s) 19-22 and 24-30 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)🖂	6)⊠ Claim(s) <u>19-22 and 24-30</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)□	The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>21 July 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119		•				
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
and the second detailed detailed action to a not of the doration deploy not reconved.							
A44	Mal						
Attachmen 1) Notice	t(s) e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal Pa	atent Application				

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DETAILED ACTION

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Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9 July 2007 has been entered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 3. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 19-22 and 24-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Regarding Claims 19 and 28, it is unclear what is meant by the phrase "having a reduced carbon fiber content which is 10% or less of the carbon fiber content of the material." The Specification refers to the carbon fiber content of the material in the Specification at page 3, line 6 through page 4, line 15. The carbon fiber content is characterized in terms of weight content and volumetric content. Hence, it is unclear whether the 10% level that is being claimed is based on weight or volume. The permitted level in the surface would differ depending on

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the basis of measurement, and so the claim scope cannot be definitely determined.

6. Regarding Claim 28, it is unclear whether the claimed "(1) removing graphite" step must achieve the claimed "surface having reduced carbon fiber content which is 10% or less of fiber content of the material," or not necessarily.

Response to Amendment

- 7. In view of applicant's amendments and arguments, applicant traverses the section 112, second paragraph rejection of the Office Action mailed on 8 March 2007. Rejection is withdrawn since it is rendered moot by applicant's amendment.
- 8. In view of applicant's amendments and arguments, applicant traverses the section 102 rejection over Smith of the Office Action mailed on 8 March 2007.

 Rejection is withdrawn.
- In view of applicant's amendments and arguments, applicant traverses the section 102 rejection over Saubestre of the Office Action mailed on 8 March 2007. Rejection is withdrawn.
- 10. In view of applicant's amendments and arguments, applicant traverses thesection 103 rejection over Smith in view of Cornie of the Office Action mailed on8 March 2007. Rejection is withdrawn.

Allowable Subject Matter

11. Claims 19 and 28 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

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12. Claims 20-22, 24-27, 29, and 30 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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13. The reviewed prior art does not teach or suggest the claimed subject matter of Claims 19-22 and 24-30. Particularly, the reviewed prior art does not teach or suggest the claimed metal/graphite material having a surface layer, characterized as claimed with reduced carbon fiber content, that is further coated with intermediate layer and metal coating, wherein the claimed compositional and structural limitations, as explicitly stated or implied by product-by-process limitations, are obtained.

Conclusion

- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (571) 272-1539. The examiner can normally be reached on Monday through Friday.
- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael La Villa 11 August 2007

AICHAEL E. LAVILLA PH.D.
PRIMARY EXAMINER